

JUL 25 2003

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1875.1760001APPLICATION NO.  
10/084,503APPLICANT  
Jes Thyssen et al.FILING DATE  
February 28, 2002GROUP  
2644

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TB	AA1	09/772,077		Chen			11/27/2000
TB	AB1	09/832,131		Chen			04/11/2000
TB	AC1	09/832,132		Chen			04/11/2000
	AD1						
	AE1						
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TB	AR	1	John Makhoul et al., "Adaptive Noise Spectral Shaping and Entropy Coding In Predictive Coding of Speech," <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , Vol. ASSP-27, No. 1, February 1979
TB	AS	1	Bishnu S. Atal et al., "Predictive Coding of Speech Signals and Subjective Error Criteria," <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , Vol. ASSP-27, No. 3, June 1979
	AT	1	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
T3	AA1	2,927,962	03/1960	C.C. Cutler			
	AB1	4,220,819	09/1980	Atal			
	AC1	4,317,208	02/1982	Araseki et al.			
	AD1	4,776,015	10/1988	Takeda et al.			
	AE1	4,791,654	12/1988	De Marca et al.			
	AF1	4,811,396	03/1989	Yatsuzuka			
	AG1	4,860,355	08/1989	Copperi			
	AH1	4,896,361	01/1990	Gerson			
	AI1	4,918,729	04/1990	Kudoh			
	AJ1	4,963,034	10/1990	Cuperman et al.			
T3	AK1	4,969,192	11/1990	Chen et al.			

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
T3	AL1	0 573 216 A2	12/8/93	Europe			Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	
	AS	1	
	AT	1	E.G. Kimme and F.F. Kuo, "Synthesis of Optimal Filters for a Feedback Quantization System", IEEE Transactions on Circuit Theory, The Institute of Electrical and Electronics Engineers, Inc., Vol. CT-10, No. 3, September 1963, pp. 405-413.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TS	AA2	5,007,092	04/1991	Galand et al.			
1	AB2	5,060,269	10/1991	Zinser			
	AC2	5,204,677	04/1993	Akagiri et al.			
	AD2	5,313,554	05/1994	Ketchum			
	AE2	5,487,086	01/1996	Bhaskar			
	AF2	5,493,296	02/1996	Sugihara			
	AG2	6,014,618	01/2000	Patel et al.			
	AH2	6,055,496	04/2000	Heidari et al.			
	AI2	6,131,083	10/2000	Miseki et al.			
	AJ2	5,963,898	10/1999	Navarro et al.			
TS	AK2	4,393,272	07/1983	Itakura et al.			

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	2	Ira A. Gerson and Mark A. Jasiuk, "Techniques for Improving the Performance of CELP-Type Speech Coders," IEEE Journal on Selected Areas in Communications, IEEE, Vol. 10, No. 5, June 1992, pp. 858-865.
TS	AS	2	Cheng-Chieh Lee, "An Enhanced ADPCM Coder for Voice Over Packet Networks," International Journal of Speech Technology, Kluwer Academic Publishers, 1999, pp.343-357.
TS	AT	2	Marcellin, M.W. et al., "Predictive Trellis Coded Quantization of Speech," IEEE Transactions on Acoustics, Speech, And Signal Processing, Vol. 38, No. 1, IEEE, pp. 46-55 (January 1990).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TS	AA3	6,188,980 B1	02/2001	Thyssen			
↑	AB3	2003/0083865	05/01/2003	Thyssen			
↓	AC3	2003/0078773	04/24/2003	Thyssen			
↓	AD3	2003/0135367	07/17/2003	Thyssen et al.			
TS	AE3	2003/0135365	07/17/2003	Thyssen et al.			
	AF3						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	3	Hayashi, S. et al., "Low Bit-Rate CELP Speech Coder with Low Delay," <i>Signal Processing</i> , Elsevier Science B.V., Vol. 72, 1999, pp. 97-105.
TS	AS	3	Tokuda, K. et al., "Speech Coding Based on Adaptive Mel-Cepstral Analysis," <i>IEEE</i> , 1994, pp. 1-197-1-200.
TS	AT	3	Marcellin, M.W. and Fischer, T.R., "A Trellis-Search 16 KBIT/SEC Speech Coder with Low-Delay," <i>Proceedings of the Workshop on Speech Coding for Telecommunications</i> , Kluwer Publishers, 1989, pp. 47-56.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	1948 CLASS	FILING DATE
	AA4						
	AB4						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	4	Watts, L. and Cuperman, V., "A Vector ADPCM Analysis-By-Synthesis Configuration for 16 kbit/s Speech Coding," <i>Proceedings of the Global Telecommunications Conference and Exhibition (Globecom)</i> , IEEE, 1988, pp. 275-279.
TS	AS	4	Itakura, F., "Line Spectrum representation of linear predictor coefficients of speech signals", <i>The Journal of the Acoustical Society of America</i> , American Institute of Physics for the Acoustical Society of America, Spring 1975, Vol. 57, Supplement No. 1, p. S35.
TS	AT	4	Kabal, P. and Ramachandran, R.P., "The Computation of Line Spectral Frequencies Using Chebyshev Polynomials", <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , IEEE, December 1986, Vol. ASSP-34, No. 6, pp. 1419-1426.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	5	Rabiner, L.R. and Schafer, R.W., "Digital Processing of Speech Signals", Prentice Hall, 1978, pp. 401-403 and 411-413.
	AS	5	
	AT	5	

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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1875.1760001APPLICATION NO.  
10/084,503INVENTORS  
Jes THYSSEN et al.FILING DATE  
February 28, 2002ART UNIT  
2644

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

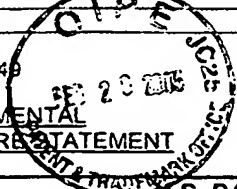



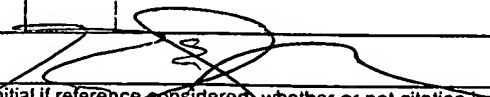
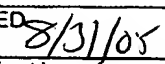
B	AR1	European Search Report from EP Application No. 02259023.6, dated December 6, 2004, 3 pages.
TS	AS1	European Search Report from EP Application No. 02259024.4, dated December 6, 2004, 3 pages.
B	AT1	Dattoro, J. and Christine Law, <i>Error Spectrum Shaping and Vector Quantization</i> , Stanford University, Autumn 1997, 10 pages.

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FORM PTO-1449				ATTY. DOCKET NO. <b>1875.1760001</b>		APPLICATION NO. <b>10/084,503</b>		Page 2 of 2
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				INVENTORS <b>Jes THYSSEN et al.</b>		FILING DATE <b>February 28, 2002</b>		ART UNIT <b>2644</b>
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
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<b>FOREIGN PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AL						Yes	
							No	
	AM						Yes	
							No	
	AN						Yes	
							No	
	AO						Yes	
							No	
	AP						Yes	
							No	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>								
	AR2	European Search Report from EP Application No. 02255681.5, dated October 14, 2004, 2 pages.						
	AS2	Skoglund, J., "Analysis and quantization of glottal pulse shapes," <i>Speech Communication</i> , Elsevier Science B.V., Vol. 24, No. 2, May 1, 1998, pp 133-152.						
	AT2	Jayanti, N.S., "ADPCM Coding Of Speech With Backward Adaptive Algorithms For Noise Feedback And Postfiltering", <i>ICASSP '87, IEEE</i> , April 1987, pp 1238-1201.						
EXAMINER					DATE CONSIDERED			
								
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